

**Flood Control Project Maintenance
Levee Inspections**

Fall 2012 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

RD2092	Overall LMA Rating	Total LMA Miles						
Reclamation District No. 2092 Dos Rios	A	3.76						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Encroachments	0.01		0.01	0.27%	1.64			
Animal Control	0.04		0.04	1.06%				
Slope Stability	0.01		0.01	0.27%				
Emergency Supplies & Equipment	0.04		0.04	1.06%				
Flood Preparedness & Training	0.04		0.04	1.06%				
<i>LMA Totals:</i>	0.14	0.00	0.14	3.72%	1.64	0.00	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2012 Levee Inspection Results

Reclamation District No. 2092 Dos Rios

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			A	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2012 Levee Inspection Results

Reclamation District No. 2092 Dos Rios

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Right	3.76
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	05/17/2012 - 05/17/2012		11/27/2012 - 11/27/2012	
DWR Inspector	Pavel Kazi		Pavel Kazi	
Accompanied By			Jeff Holt River Partners	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 2092 Dos Rios

Waterway					Bank	Unit Miles	Inspection Start/End		Inspector
Unit No. 01 San Joaquin River					Right	3.76	11/27/2012 11/27/2012		Pavel Kazi
LMR No.	Levee Mile		Category	Item	Location + Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End					Start	End	Photo
1			Earthen Levee	Flood Preparedness & Training	LS M Ma	Inspector Comments: River Partner crews were never trained to fight a flood, but they will attend the next flood fighting class offer in their area.	°	°	18
DWR ID: DWR_RD2092_01_f_2012_18									
2			Earthen Levee	Operations & Maintenance Manuals	LS A Ma	Inspector Comments: They have the latest O&M manual for their district.	°	°	24
DWR ID: DWR_RD2092_01_s_2012_24									
3			Earthen Levee	Emergency Supplies & Equipment	LS M Ma	Inspector Comments: River Partner just became the new owner of this levee district. They still don't have adequate flood fighting materials yet, but they will acquire them soon.	°	°	26
DWR ID: DWR_RD2092_01_s_2012_26									
4	0.38	0.70	Earthen Levee	Encroachments	WS M En	DT : Ditch	37.601304 ° -121.164659 °	37.598233 ° -121.167937 °	4
DWR ID: DWR_RD2092_01_s_2012_4									
5	0.55	0.55	Earthen Levee	Animal Control	LS A Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.600104 ° -121.166909 °	37.600104 ° -121.166909 °	1 Y
DWR ID: DWR_RD2092_01_s_2012_1									
6	0.77	1.33	Earthen Levee	Encroachments	LS M En	DT : Ditch	37.597291 ° -121.168496 °	37.590568 ° -121.164028 °	968 Y
DWR ID: DWR_RD2092_01_s_2012_968									
7	0.88	0.88	Earthen Levee	Animal Control	LS C Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.595762 ° -121.168187 °	37.595762 ° -121.168187 °	6
DWR ID: DWR_RD2092_01_s_2012_6									
8	1.04	1.04	Earthen Levee	Encroachments	LS M Ma	ST : Stairway	37.593726 ° -121.167011 °	37.593726 ° -121.167011 °	5 Y
DWR ID: DWR_RD2092_01_f_2012_5									
9	1.34	1.57	Earthen Levee	Encroachments	LS M En	DT : Ditch	37.590479 ° -121.163844 °	37.587758 ° -121.162349 °	7 Y
DWR ID: DWR_RD2092_01_s_2012_7									
10	1.34	1.34	Earthen Levee	Encroachments	LS A/W Ma	PI : Pipe Inspector Comments: A sand boil appeared on the landside toe of the levee because of an underground pipe leakage. The pipe and boil have been repaired but should be monitored.	37.590467 ° -121.163822 °	37.590467 ° -121.163822 °	10 Y
DWR ID: DWR_RD2092_01_s_2012_10									
11	1.34	1.34	Earthen Levee	Animal Control	LS C Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.590458 ° -121.163798 °	37.590458 ° -121.163798 °	9
DWR ID: DWR_RD2092_01_s_2012_9									
12	1.35	1.35	Earthen Levee	Animal Control	LS A Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: LMA fixed the issue.	37.590413 ° -121.163705 °	37.590413 ° -121.163705 °	15 Y
DWR ID: DWR_RD2092_01_f_2012_15									
13	1.36	1.36	Earthen Levee	Slope Stability	LS C Ma	S1 : Repair slope instability.	37.590341 ° -121.163549 °	37.590341 ° -121.163549 °	11
DWR ID: DWR_RD2092_01_s_2012_11									

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 2092 Dos Rios

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River				Right	3.76	11/27/2012 11/27/2012	Pavel Kazi

LMR No.	Levee Mile		Category	Item	Location * + Rating + Ma	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	
14	1.47	1.47	Earthen Levee	Animal Control	LS Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.589053 ° -121.162168 °	37.589053 ° -121.162168 °	13 Y
DWR ID: DWR_RD2092_01_s_2012_13									
15	1.47	1.47	Earthen Levee	Slope Stability	LS Ma	S1 : Repair slope instability.	37.589061 ° -121.162168 °	37.589061 ° -121.162168 °	25 Y
DWR ID: DWR_RD2092_01_s_2012_25									
16	1.53	1.53	Earthen Levee	Animal Control	LS Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.588375 ° -121.162084 °	37.588375 ° -121.162084 °	12 Y
DWR ID: DWR_RD2092_01_s_2012_12									
17	1.55	1.69	Supplemental	DWR Erosion Survey	WS Ma	Inspector Comments: 09/26/2012: Site was not surveyed this year due to time constraints. There have been no reports from the levee inspectors or district that this site has new erosion. 08/18/2011: This site was repaired. No new erosion visible. 11/30/2010: Site was not surveyed this year due to time constraints. There have been no reports from the district that this site was corrected. 08/05/2010: Recommended for annual assessment and monitoring during flood events, per CLRO. 08/25/2009: No major change since last visit; sloughing of the lower slope that's created a terraced effect; damage could be caused by wave action during an extended flooding; site is recommended as local maintenance issue, per CLRO CES Evaluation 2008 Report; previously rated "M". 08/09/2007: Not as serious - use lower rating. [2012 Site ID:RD2092U01RM84.6]	37.587130 ° -121.162830 °	37.587130 ° -121.162830 °	17 Y
DWR ID:									
18	1.58	1.58	Earthen Levee	Animal Control	LS Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.587657 ° -121.162393 °	37.587657 ° -121.162393 °	23 Y
DWR ID: DWR_RD2092_01_s_2012_23									
19	1.59	1.87	Earthen Levee	Encroachments	WS En	DT : Ditch	37.587575 ° -121.162454 °	37.584057 ° -121.162387 °	8 Y
DWR ID: DWR_RD2092_01_s_2012_8									
20	2.02	2.02	Earthen Levee	Crown Surface / Depressions / Rutting	CR Ma	C2 : Repair depressions or ruts in the crown or slope.	37.584355 ° -121.159676 °	37.584355 ° -121.159676 °	27 Y
DWR ID: DWR_RD2092_01_s_2012_27									
21	2.07	2.07	Earthen Levee	Animal Control	LS Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.584295 ° -121.158809 °	37.584295 ° -121.158809 °	971 Y
DWR ID: DWR_RD2092_01_s_2012_971									
22	2.09	2.09	Earthen Levee	Animal Control	LS Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.584226 ° -121.158437 °	37.584226 ° -121.158437 °	22 Y
DWR ID: DWR_RD2092_01_s_2012_22									
23	2.13	2.13	Earthen Levee	Animal Control	WS Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.584014 ° -121.157849 °	37.584014 ° -121.157849 °	20 Y
DWR ID: DWR_RD2092_01_f_2012_20									

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 2092 Dos Rios

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River				Right	3.76	11/27/2012 11/27/2012	Pavel Kazi

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
24	2.13	2.13	Earthen Levee	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.584014 ° -121.157849 °	37.584014 ° -121.157849 °	31 Y
DWR ID: DWR_RD2092_01_f_2012_31										
25	2.41	2.41	Earthen Levee	Animal Control	CR	C Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.580856 ° -121.156444 °	37.580856 ° -121.156444 °	21 Y
DWR ID: DWR_RD2092_01_s_2012_21										
26	2.41	2.41	Earthen Levee	Animal Control	LS	C Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.580851 ° -121.156438 °	37.580851 ° -121.156438 °	28 Y
DWR ID: DWR_RD2092_01_s_2012_28										
27	2.42	2.42	Earthen Levee	Animal Control	LS	C Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.580441 ° -121.156758 °	37.580441 ° -121.156758 °	14 Y
DWR ID: DWR_RD2092_01_s_2012_14										
28	2.44	2.44	Earthen Levee	Animal Control	LS	A Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: LMA fixed the issue.	37.580460 ° -121.156744 °	37.580460 ° -121.156744 °	34 Y
DWR ID: DWR_RD2092_01_f_2012_34										
29	2.62	2.62	Earthen Levee	Slope Stability	LS	M Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.	37.577864 ° -121.157070 °	37.577864 ° -121.157070 °	35 Y
DWR ID: DWR_RD2092_01_f_2012_35										
30	2.67	2.67	Earthen Levee	Slope Stability	LS	A Ma	S1 : Repair slope instability. Inspector Comments: LMA fixed the issue.	37.577169 ° -121.157156 °	37.577169 ° -121.157156 °	36 Y
DWR ID: DWR_RD2092_01_f_2012_36										
31	2.67	2.67	Earthen Levee	Slope Stability	LS	C Ma	S1 : Repair slope instability.	37.577214 ° -121.157151 °	37.577214 ° -121.157151 °	19 Y
DWR ID: DWR_RD2092_01_s_2012_19										
32	2.73	2.73	Earthen Levee	Slope Stability	LS	A Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: LMA fixed the issue.	37.576360 ° -121.157214 °	37.576360 ° -121.157214 °	37 Y
DWR ID: DWR_RD2092_01_f_2012_37										
33	2.73	2.73	Earthen Levee	Slope Stability	LS	C Ma	S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.	37.576336 ° -121.157217 °	37.576336 ° -121.157217 °	30 Y
DWR ID: DWR_RD2092_01_s_2012_30										
34	2.76	2.76	Earthen Levee	Slope Stability	WS	C Ma	S1 : Repair slope instability.	37.575946 ° -121.157230 °	37.575946 ° -121.157230 °	33 Y
DWR ID: DWR_RD2092_01_s_2012_33										
35	2.84	3.09	Earthen Levee	Encroachments	LS	M En	FE : Fence Inspector Comments: Barbed wire fence on landward slope.	37.574973 ° -121.156647 °	37.574001 ° -121.152183 °	972 Y
DWR ID: DWR_RD2092_01_s_2012_972										

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.76	11/27/2012 11/27/2012	Pavel Kazi

Levee Mile Report Line	5
Start Levee Mile	0.55
End Levee Mile	0.55
Location	Land Side
Category	Earthen Levee
Item	Animal Control

The rodent holes were repaired by the LMA on the landside of the levee looking upstream.

pkazi_f_20120913_898.jpg



Levee Mile Report Line	6
Start Levee Mile	0.77
End Levee Mile	1.33
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of agricultural ditch at the landward toe looking upstream.

pkazi_f_20120913_920.jpg



Levee Mile Report Line	8
Start Levee Mile	1.04
End Levee Mile	1.04
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Stairs were dug into the landside slope of the levee looking upstream.

pkazi_f_20121129_195.jpg



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Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.76	11/27/2012 11/27/2012	Pavel Kazi

Levee Mile Report Line	9
Start Levee Mile	1.34
End Levee Mile	1.57
Location	Land Side
Category	Earthen Levee
Item	Encroachments

An agricultural ditch was found on the toe of the landside of the levee looking upstream.

pkazi_f_20120913_900.jpg



Levee Mile Report Line	10
Start Levee Mile	1.34
End Levee Mile	1.34
Location	Land Side
Category	Earthen Levee
Item	Encroachments

A sand boil was found on the landside of the levee. It was caused by a pipe leak couple of feet below the boil location. LMA was notified to repair it as soon as possible. The picture was taken from the crown looking upstream.

pkazi_f_20120913_902.jpg



Levee Mile Report Line	10
Start Levee Mile	1.34
End Levee Mile	1.34
Location	Land Side
Category	Earthen Levee
Item	Encroachments

During spring inspection 2012, the sand boil was not active but materials were present on the landside toe of the levee. The sand boil occurred due to an underground irrigation pipe leakage. The picture was taken from the crown looking toward the toe of the levee. The area was repaired but should be monitored.

pkazi_f_20120913_903.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.76	11/27/2012 11/27/2012	Pavel Kazi

Levee Mile Report Line	12
Start Levee Mile	1.35
End Levee Mile	1.35
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Animal holes were repaired by the LMA on the landside of the levee looking upstream.

pkazi_f_20121129_196.jpg



Levee Mile Report Line	14
Start Levee Mile	1.47
End Levee Mile	1.47
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Animal holes were found on the landside of the levee looking upstream.

pkazi_f_20120913_907.jpg



Levee Mile Report Line	18
Start Levee Mile	1.58
End Levee Mile	1.58
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Rodent holes were repaired by the LMA on the landside slope of the levee looking upstream.

pkazi_f_20120913_912.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.76	11/27/2012 11/27/2012	Pavel Kazi

Levee Mile Report Line	19
Start Levee Mile	1.59
End Levee Mile	1.87
Location	Water Side
Category	Earthen Levee
Item	Encroachments

View of an agricultural ditch at the waterward toe of the slope.

pkazi_f_20120913_901.jpg



Levee Mile Report Line	21
Start Levee Mile	2.07
End Levee Mile	2.07
Location	Land Side
Category	Earthen Levee
Item	Animal Control

View of rodent holes in the landward shoulder looking upstream.

pkazi_f_20120913_921.jpg



Levee Mile Report Line	21
Start Levee Mile	2.07
End Levee Mile	2.07
Location	Land Side
Category	Earthen Levee
Item	Animal Control

View of a rodent hole on the landside shoulder of the levee looking downstream.

pkazi_f_20121129_197.jpg



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**Flood Control Project Maintenance
Levee Inspections**

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.76	11/27/2012 11/27/2012	Pavel Kazi

Levee Mile Report Line	22
Start Levee Mile	2.09
End Levee Mile	2.09
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Rodent holes were repaired by the LMA on the landside slope of the levee looking upstream.

pkazi_f_20120913_911.jpg



Levee Mile Report Line	23
Start Levee Mile	2.13
End Levee Mile	2.13
Location	Water Side
Category	Earthen Levee
Item	Animal Control

Rodent holes were found on the waterside toe of the levee looking upstream.

pkazi_f_20121129_199.jpg



Levee Mile Report Line	24
Start Levee Mile	2.13
End Levee Mile	2.13
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Rodent holes were found on the landside slope of the levee looking upstream.

pkazi_f_20121129_198.jpg



*** Location**

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A/W : Acceptable but Monitor & Maintain

+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 2092 Dos Rios

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	3.76	11/27/2012 11/27/2012	Pavel Kazi

Levee Mile Report Line	28
Start Levee Mile	2.44
End Levee Mile	2.44
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Rodent holes were repaired by the LMA on the landside slope of the levee looking upstream.

pkazi_f_20121129_200.jpg



Levee Mile Report Line	29
Start Levee Mile	2.62
End Levee Mile	2.62
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Slope instability was found due to vehicular traffic on the landside shoulder of levee looking upstream.

pkazi_f_20121129_201.jpg



Levee Mile Report Line	30
Start Levee Mile	2.67
End Levee Mile	2.67
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Slope instability was repaired by the LMA on the landside slope of the levee looking downstream.

pkazi_f_20121129_202.jpg



*** Location**

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CR : Crown

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 2092 Dos Rios

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Unit No. 01 San Joaquin River	Right	3.76	11/27/2012 11/27/2012	Pavel Kazi

Levee Mile Report Line	32
Start Levee Mile	2.73
End Levee Mile	2.73
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Slope instability was repaired by the LMA on the landside slope of the levee looking upstream.

pkazi_f_20121129_203.jpg



Levee Mile Report Line	35
Start Levee Mile	2.84
End Levee Mile	3.09
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of barbed wire fence along the waterward slope looking upstream.

pkazi_f_20120913_922.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement